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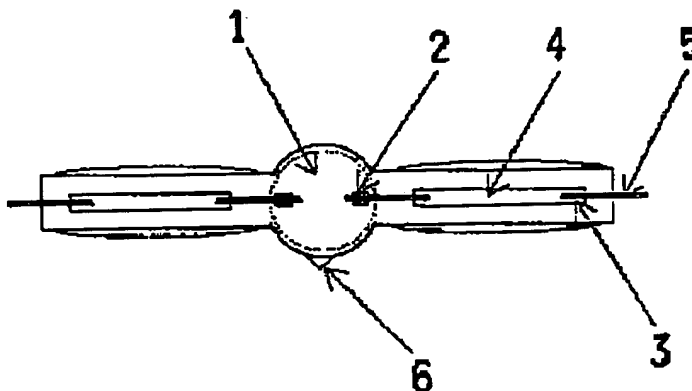
Representative:

(54) METAL HALIDE LAMP

(57) Abstract:

PURPOSE: To attain stabilization a lamp life while improving an emitting characteristic of illumination intensity, light flux, etc., as a light source for image equipment or the like, by specifying a range of applying a heat insulating film in the prescribed range.

CONSTITUTION: An electrode 2 of a metal halide lamp is connected to both end seal parts 3 of arc tube 1 through molybdenum foil 4, and a distance between the electrodes 2 is 5mm or less, to further set a wall surface load of an arc tube to 60W/cm² or more. The inside of the arc tube is sealed with dysprosium iodide, neodymium iodide and cesium iodide as an emitting metal, mercury of prescribed amount as buffer gas and argon as starting assist gas. A heat insulating film is applied to at least one end of an external surface of this arc tube. In a range of applying this heat insulating film, it is applied with any of from a coil lower end part of the electrode 2 and its root part serving as a starting point and further over to at least an end part of the sealing part 3.



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